### **PATENT COOPERATION TRLATY**

From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. Priority date (day/month/year) International filing date (day/month/year) PCT/B2004/000910 26.03.2004 27.03.2003 International Patent Classification (IPC) or both national classification and IPC A61K31/675, A61K31/4415, A61K31/4353, A61K31/4355, A61P9/10 Applicant MEDICURE INC. 1. This opinion contains indications relating to the following items: ☑ Box No. I Basis of the opinion Box No. II **Priority** Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: **Authorized Officer** 

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Form PCT/ISA/237 (Cover Sheet) (January 2004)

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10/551303

# JC09 Rec'd PCT/PTO 27 SEP 2005

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

_		
_	Box I	. I Basis of the opinion
1.	With I	gard to the <b>language</b> , this opinion has been established on the basis of the international application in juage in which it was field, unless otherwise indicated under this item.
	16	s opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search der Rules 12.3 and 23.1(b)).
2.	With r neces	pard to any nucleotide and/or amino acid sequence disclosed in the international application and any to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. forn	t of material:
		n written format
		n computer readable form
	c. time	f filing/furnishing:
		contained in the international application as filed.
		iled together with the international application in computer readable form.
		urnished subsequently to this Authority for the purposes of search.
3.	CO	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.
١.	Additio	al comments:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

_	Во	k No. II	Priority
1.	×	The fol	lowing document has not been furnished:
		$\boxtimes$	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
		Consecutive neverth	quently it has not been possible to consider the validity of the priority claim. This opinion has been established on the assumption that the relevant date is the claimed priority date.
2.		has be	ninion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.
3.	Add	litional o	bservations, if necessary:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

	ox No. III Non-establishment oplicability	of opinion with regard to novelty, inventive step and industrial	
T	he questions whether the claimed	invention appears to be novel, to involve an inventive step (to be non cable have not been examined in respect of:	
	the entire international applica	tion,	
🗵	claims Nos. 1-49 (with respec	to IA)	
be	ecause:		
×		on, or the said claims Nos. 1-49 (with respect to IA) relate to the following require an international preliminary examination (specify):	
	see separate sheet		
	the description, claims or draw unclear that no meaningful op	ings (indicate particular elements below) or said claims Nos. are so nion could be formed (specify):	
	the claims, or said claims Nos could be formed.	are so inadequately supported by the description that no meaningful opinion	n
$\boxtimes$	no international search report	nas been established for the whole application or for said claims Nos.	
	the nucleotide and/or amino ac C of the Administrative Instruc	id sequence listing does not comply with the standard provided for in Annex ions in that:	
	the written form	☐ has not been furnished	
		☐ does not comply with the standard	
	the computer readable form	☐ has not been furnished	
		☐ does not comply with the standard	
	the tables related to the nucleonot comply with the technical r	tide and/or amino acid sequence listing, if in computer readable form only, dequirements provided for in Annex C-bis of the Administrative Instructions.	0
	See separate sheet for further	details	

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/000910

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

2-49

No:

1

Inventive step (IS)

Yes: Claims

2-49

No: Claims

1

Industrial applicability (IA)

Yes: Claims

No: Claims

2. Citations and explanations

see separate sheet

### Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

### Re Item III

# Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 1-49 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: WO 2004/017916 A (4LIFE RES LC) 4 March 2004 (2004-03-04)
- D2: CHASAN-TABER LISA ET AL: "A prospective study of folate and vitamin B-6 and risk of myocardial infarction in US physicians" JOURNAL OF THE AMERICAN COLLEGE OF NUTRITION, vol. 15, no. 2, 1996, pages 136-143, XP009033690 ISSN: 0731-5724
- D3: DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1982, URBAIN M ET AL: "POTENTIAL CARDIO VASCULAR AGENTS PIPERAZINO ISO PROPANOL OXY PYRIDOXINES" XP001194600 Database accession no. PREV198375012955
- D4: GB-A-2 075 983 (LABAZ NV) 25 November 1981 (1981-11-25)
- D5: US-A-4 374 841 (DESCAMPS MARCEL ET AL) 22 February 1983 (1983-02-22)
- D6: DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1985, WOLF C ET AL: "PIRIDOXILATE AN IMPORTANT LITHOGENIC FACTOR OF CALCIUM OXALATE URINARY STONES" XP009033692 Database accession no. PREV198682029669
- D7: DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 1 February 1988 (1988-02-01), RUDZITE V ET AL: "[Peculiarities of nicotinic acid formation in coronary heart disease with special reference to heart arrhythmias]" XP009033693 Database accession no. NLM3369217
- D8: WO 01/64692 A (MEDICURE INTERNAT INC) 7 September 2001 (2001-09-

PCT/IB2004/000910

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For what concerns the most relevant paragraphs of the above-mentioned documents, please see citations in the International Search Report, unless otherwise indicated.

### 1. CLAIM 1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

As a matter of fact, D1 already discloses the administration of a pharmaceutical composition comprising pyridoxine to a patient suffering from angina. As well, D2 describes a prospective study, in a model for controlling diabetes, angina, hypertension, Quetelet's index and cholesterol, which shows the role played by pyridoxal phosphate (PLP) in preventing myocardial infarction which prevalently leads to angina.

### 2. CLAIMS 2, 11, 26, 34 AND 41

Present independent claims 2, 11, 26, 34 and 41 seem to meet the criteria of Article 33(1) PCT, because their subject-matter appears to be new in the sense of Article 33(2) PCT and inventive in the sense of Article 33(3) EPC.

None of the prior art documents seems to anticipate or suggest the claimed subjectmatter, the reasons being as follows:

- a) D3, D4, D5 and D6 disclose the antiadrenergic activity of molecules derived from pyridoxine which renders them potentially useful as antianginal agents.
- Although similar, said compounds are not falling in the general formulas claimed in the present application;
- b) D7 teaches that coronary heart problems like angina are often bound to a lack of pyridoxal-5-phosphate (PLP) in the body of patients. However, no therapeutic application of PLP is suggested;
- c) D8 discloses many of the compounds claimed in the present application for the treatment of cardiovascular related diseases. However, neither the antianginal nor the antiadrenergic activity of said compounds is described.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/000910

The subject-matter of claims 2, 11, 26, 34 and 41 seems, therefore, to be new and inventive since no available prior art document is disclosing exactly or suggesting the claimed subject-matter.

Claims 3-10, 12-25, 27-33, 35-40 and 42-49 are dependent on claims 2, 11, 26, 34 and 41 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

### 3. INDUSTRIAL APPLICATION

For the assessment of the present claims 1-49 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

## PATENT COOPERATION TREATY

### **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
12695.17WOU1	ACTION as well	as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IB2004/000910	26/03/2004	27/03/2003
Applicant		
MEDICURE INC.	·	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this international Searching Authorsmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
It is also accompanied by	a copy of each prior art document cited in this	report.
ianguage in which it was filed, unit	nternational search was carried out on the bases otherwise indicated under this item.	·
this Authority (Rule	search was carried out on the basis of a transis e 23.1(b)).	ation of the international application furnished to
b. With regard to any nucleo	tide and/or amino acid sequence disclosed	in the international application, see Box No. I.
2. X Certain claims were foun	d unsearchable (See Box II).	
3. Unity of invention is lack	ing (see Box III).	
4. With regard to the title,		
the text is approved as sub	omitted by the applicant.	
	ed by this Authority to read as follows:	
COMPOSITIONS FOR TREAT:	ING ANGINA	
	•	
		•
·		•
E With regard to the shakes		•
5. With regard to the <b>abstract,</b> X the text is approved as sub	mitted by the coefficient	•
the text has been establish	ed, according to Rule 38.2(b), by this Authority	as it appears in Box No. IV. The applicant
	n the date of mailing of this international search	report, submit comments to this Authority.
6. With regards to the drawings,		
a. the figure of the drawings to be pu	blished with the abstract is Figure No.	
as suggested by the	•	·
as selected by this	Authority, because the applicant failed to sugg	est a figure.
as selected by this	Authority, because this figure better characteri	
b. X none of the figures is to be	published with the abstract.	
		· · · · · · · · · · · · · · · · · · ·

### INT \_ LATIONAL SEARCH REPORT

....emational Application No

PCT/IB2004/000910 CLASSIFICATION OF SUBJECT MATTER PC 7 A61K31/675 A61K A61K31/4415 A61K31/4353 A61K31/4355 A61P9/10 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 **A61K** Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category \* Relevant to claim No. P,X WO 2004/017916 A (4LIFE RES LC) 1 4 March 2004 (2004-03-04) P.A page 8 2-49 page 12, line 9 - line 14 X CHASAN-TABER LISA ET AL: "A prospective 1 study of folate and vitamin B-6 and risk of myocardial infarction in US physicians" JOURNAL OF THE AMERICAN COLLEGE OF NUTRITION. vol. 15, no. 2, 1996, pages 136-143, XP009033690 ISSN: 0731-5724 Α the whole document 2-49 X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the \*A\* document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled \*P\* document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 19 July 2004 26/07/2004 Name and malling address of the ISA **Authorized officer** European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Collura, A

### INT. LIATIONAL SEARCH REPORT

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C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	FC1/182004/000910
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Delevent to chile his
		Relevant to claim No.
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1982, URBAIN M ET AL: "POTENTIAL CARDIO VASCULAR AGENTS PIPERAZINO ISO PROPANOL OXY PYRIDOXINES" XP001194600 Database accession no. PREV198375012955 abstract & EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol. 17, no. 4, 1982, pages 359-364, ISSN: 0223-5234 page 359	1-49
A	GB 2 075 983 A (LABAZ NV) 25 November 1981 (1981-11-25) page 2, line 13 - line 26 page 5, line 8 - line 14 claim 10	1-49
4	US 4 374 841 A (DESCAMPS MARCEL ET AL) 22 February 1983 (1983-02-22) abstract column 2, line 57 - line 63	1-49
	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1985, WOLF C ET AL: "PIRIDOXILATE AN IMPORTANT LITHOGENIC FACTOR OF CALCIUM OXALATE URINARY STONES" XP009033692 Database accession no. PREV198682029669 abstract & NEPHROLOGIE, vol. 6, no. 5, 1985, pages 225-227, XP009033692 ISSN: 0250-4960 abstract	1-49
	DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 1 February 1988 (1988-02-01), RUDZITE V ET AL: "'Peculiarities of nicotinic acid formation in coronary heart disease with special reference to heart arrhythmias!" XP009033693 Database accession no. NLM3369217 abstract -/	1-49
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### INT \_\_\_\_ATIONAL SEARCH REPORT

PCT/IB2004/000910

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	TS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages	· · · · · · · · · · · · · · · · · · ·	Relevant to claim No.				
	& ZEITSCHRIFT FUR DIE GESAMTE INNERE MEDIZIN UND IHRE GRENZGEBIETE 1 FEB 1988, vol. 43, no. 3, 1 February 1988 (1988-02-01), pages 60-65, ISSN: 0044-2542 page 61, right-hand column, paragraph 2						
A	WO 01/64692 A (MEDICURE INTERNAT INC) 7 September 2001 (2001-09-07) the whole document		1-49				
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### **INTERNATIONAL SEARCH REPORT**

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-49 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### INT \_\_\_\_ATIONAL SEARCH REPORT

Information on patent family members

. .amational Application No PCT/IB2004/000910

Patent							004/000910
	document earch report		Publication date		Patent family member(s)		Publication date
WO 20	04017916	A	04-03-2004	WO US	2004017916 2004126432		04-03-2004 01-07-2004
GB 20	 75983	Α	25-11-1981	AR	. 226356	A1	30-06-1982
				ΑT	3859		15-07-1983
				AU	542463		21-02-1985
				AU	7053581		26-11-1981
			.•	BG	35327		15-03-1984
				CA	1152080		16-08-1983
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				EP	0040591		25-11-1981
				ËS	8203845		16-07-1982
				FΙ	811525		20-11-1981
				GR	82343		13-12-1984
				HU	183441	В	28-05-1984
				ΙE	51179		29-10-1986
				IL	62602		29-06-1984
				IN	151915		03-09-1983
				JP	57011966		21-01-1982
				MA	19147		31-12-1981
				· MX	6323		01-04-1985
				NO NZ	811680 196766		20-11-1981
				0A	6811		03-02-1984 31-12-1982
				PL	231193		05-07-1982
				PT	72992		01-06-1981
				RO	81943		01-06-1983
				SU	1077566		29-02-1984
				US	4374841	Α	22-02-1983
				YU	126281		29-02-1984
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US 437	4841	Á	22-02-1983	AR AT	226356		30-06-1982
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US 437	 '4841	Á	22-02-1983	AT AU BG CA CS DD DE DK EG	3859 542463   7053581 / 35327 / 1152080 / 223842   159071 / 3160480   217481 / 15890 /	T B2 A A3 A1 B2 A5 D1 A	15-07-1983 21-02-1985 26-11-1981 15-03-1984 16-08-1983 25-11-1983 16-02-1983 28-07-1983 20-11-1981 30-03-1987
US 437		Á	22-02-1983	AT AU BG CS DD DE DK EG EP	3859 542463   7053581 / 35327 / 1152080 / 223842   159071 / 3160480   217481 / 15890 / 0040591 /	T B2 A A3 A1 B2 A5 D1 A A	15-07-1983 21-02-1985 26-11-1981 15-03-1984 16-08-1983 25-11-1983 16-02-1983 28-07-1983 20-11-1981 30-03-1987 25-11-1981
US 437	74841	Á	22-02-1983	AT AU BG CS DD DE DK EG EP ES	3859 542463   7053581 / 35327 / 1152080 / 223842   159071 / 3160480   217481 / 15890 / 0040591 / 8203845 /	T B2 A A3 A1 B2 A5 D1 A A1	15-07-1983 21-02-1985 26-11-1981 15-03-1984 16-08-1983 25-11-1983 16-02-1983 28-07-1983 20-11-1981 30-03-1987 25-11-1981 16-07-1982
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